

PAT-NO: JP02000126892A
DOCUMENT-IDENTIFIER: JP 2000126892 A
TITLE: COATED ELECTRODE FOR WELDING STAINLESS STEEL
PUBN-DATE: May 9, 2000

INVENTOR-INFORMATION:

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APPL-NO: JP10319891

APPL-DATE: October 23, 1998

INT-CL (IPC): B23K035/365, B23K009/23

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a welding rod which is available for all-position welding even in welding a sheet, sufficiently applicable to the use in the high-current range, and excellent in burning-resistance of the welding rod by coating a coating flux containing TiO₂, SiO₂, metal carbonate, CaF₂ and MnO₂ of specified quantity in a stainless steel core.

SOLUTION: A coating flux containing, by weight, 30-60% TiO₂, 3-10% SiO₂, 5-30% metal carbonate, 1-10% CaF₂, and 5-10% MnO₂ to the total weight of the coating flux is coated on a stainless steel core. In this composition ≤5% calcium titanate may be contained separately from TiO₂. Since MnO₂ is added, and MnO₂ is reacted with manganese oxide of low degree during

the
welding, the heating of the coating is prevented by the endothermic
reaction,
the burning resistance of a welding rod can be improved, the
viscosity of the
slag is dropped, and the bead shape in the vertical position is flat.
Calcium
titanic acid improves the flowability of the slag to demonstrate the
synergistic effect with MnO₂.

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